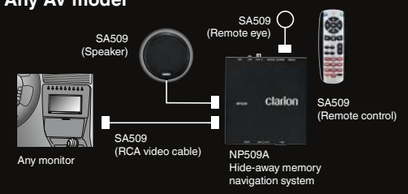
Plus, navigation integration possibilities for the equipment you already own…

Already own a Clarion main unit? Clarion's AV models, such as VX709A, VZ709A and VZ509A, can be integrated with car navigation system. What's more, separate external monitors can also be connected to navigation using the SA509 stand-alone accessory kit.
*CCB509 is necessary for VX709A and VZ709A

■ Any AV model



● Accessories

VA700
VIDEO DISTRIBUTION AMPLIFIER
• 1 gain control • 1 video input
• 7 buffered 75 ohm video outputs
• Stable video signal for up to 7 LCD monitors

FM200
FM MODULATOR
• 2-channel audio input • On/Off switch • Volume level control • FM reception frequency: 88.7MHz/ 89.1MHz

WH143/WH143H/WH253H
WIRELESS HEADPHONE SYSTEMS
• WH143H: IR wireless headphone
• WH253H: Dual channel IR wireless headphone

BLT370
BLUETOOTH AUDIO / MOBILE-PHONE
Bluetooth audio/mobile-phone transceiver for aux input
Bluetooth

CCA-723
iPod VIDEO CONNECTING CABLE
• For NX509A/VZ709A/ VX709A/VZ509A/ FZ709A/FZ409A/ MAX686BT/VRX786BT

RCB-199
EXTERNAL MICROPHONE
• For VZ709A/VX709A/ MAX686BT/VRX786BT

CCUiPod1
iPod CONNECTING CABLE
• For VX409A/VZ409A/ VRX486VD/MAX386VD

Overhead monitors

OHM875VD
8-INCH OVERHEAD ENTERTAINMENT DIGITAL MONITOR

OHM1075VD
10.2-INCH OVERHEAD ENTERTAINMENT DIGITAL MONITOR

■ OHM1075VD / OHM875VD FEATURES
• Universal slim profile • MPEG 1/2/4,MP3 and WMA playback • Adjustable display modes: Wide/Normal • Infrared remote control with on Screen display • 2 Audio/Video Inputs for external devices • 1 Audio/video output for multiple monitor applications • Built-in dome light • Includes 2 head phones for OHM1075VD, 1 headphone for OHM875VD

Rear vision CCD camera system

CC2011E
ULTRA COMPACT COLOUR CCD CAMERA (MIRROR IMAGE)

CAMERA CABLES FOR CC2011E
• Connecting cables for compact camera
CCA532 (7m)
CCA533 (10m)
CCA534 (15m)

PQE033
FINISHING CAMERA COVER FOR CC2011E

CAA185
POWER BOX FOR CCD CAMERA
• Video line-out with reverse gear connection for MAX686BT, VRX786BT, VRX586USB, VX709A, VZ709A, NX509A, VZ509A • NTSC video line-out for all other LCD with NTSC input •12V compatible

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Clarion www.clarion.com

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Office fax : +60-4-6439-108, +60-4-6438-763
http://www.clarion.com/my

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7-2 Shintoshin, Chuo-ku, Saitama-shi, Saitama, 330-0081, Japan
Tel: (81)48-601-3700, Fax: (81)48-601-3701
http://www.clarion.com/jp

Distributor

WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.

Printed in China

2009–2010 Multimedia & Navigation Catalogue

Clarion

Clarion

Human Mobile Music Media Interface

Clarion HMI

Imagination becomes reality

Ideas and thoughts are made truly meaningful when they are given shape and form.
At Clarion, we specialise in visualising the most innovative, human-friendly concepts for in-vehicle entertainment, and turning them into tangible solutions that will seamlessly transform your driving experience. Interfacing humans with music and media in a mobile environment — with Clarion H.M.I., you are the ultimate destination.

GIUGIARO

ITALDESIGN-GIUGIARO
"QUARANTA", the Clarion H.M.I. concept car created by Italian designer GIUGIARO, one of the world's top industrial design firms.

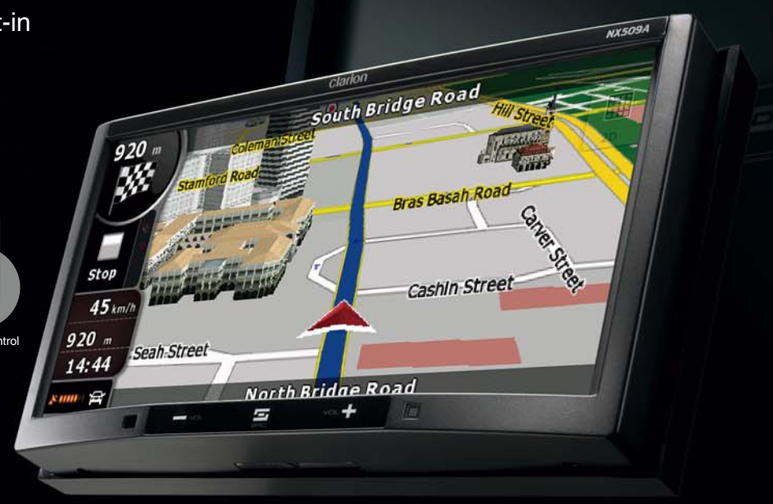
Jamiroquai

Jay Kay (Jamiroquai)
"Jay Kay", vocalist for the world-famous jazz funk band Jamiroquai.

Clarion delivers you to your destination with high performance and precision

Technological advancements are making it possible to enjoy car navigation with higher accuracy and quicker response. Clarion offers a balanced lineup to suit your every need, from built-in systems to hide-away units.

Built-in navigation and touch panel operation makes it easy to get there



Coming your way later this year!

NX509A

2-DIN DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL & BUILT-IN NAVIGATION

Remote control

■ NX509A FEATURES

• DVD-Video/DVD±R/DVD±RW/Video CD/CD-R/RW ready • Built-in navigation on 2 GB flash memory • SD card slot for navigation map updates • MP3/WMA/AAC compatible with ID3-TAG display • Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 18 FM, 12 AM station presets • iPod direct control (optional CCA723 required for iPod video playback) • Rear USB connector • 2 AV inputs • Rear vision camera RCA input, compatible with NTSC and PAL format • Subwoofer volume control • 24-bit D/A converter • BBE MP for compressed audio sound improvement (only for USB function) • Beat EQ for sound adjustment • MAGNA BASS EX dynamic bass enhancement • Built-in High Pass Filter & Low Pass Filter • 2-Zone entertainment: front and rear separate source control • Touch panel control (on-screen display) • Fully motorised 7-inch QVGA colour LCD monitor • Adjustable display brightness • 6-channel audio pre-out (Front/ Rear/ Subwoofer) and 2-channel audio pre-out for 2-Zone • 4-channel × 50 watts • Bluetooth® interface ready (optional BLT370) • OEM steering wheel remote wired interface capability • Built-in IR Eye (RCB198 remote included)

Made for iPod

■ NAVIGATION

• 3D display mode for: 3D city maps, 3D landmarks, 3D petrol stations, 3D elevation map • 2 different user modes: Simple mode, Advanced mode • Signpost information • Lane information • Rich POI database • Trip computer • Speed limit information • Safety camera capable • Screen text languages : 4 Languages • Prerecorded voices for voice guidance: 4 Languages / 8 Persons • TTS voices for voice guidance : 2 Languages / 2 Persons • Map coverage: Malaysia, Singapore, Thai, Indonesia, Brunei

*Speed trap warning may be prohibited in some countries.
*3D information, Lane information or signpost information are not available everywhere.

New GUI (Graphical User Interface)

The Clarion H.M.I. concept takes a unique form in the NX509A's touch-panel graphical user interface with high-resolution on-screen display. A wide variety of functions, ranging from car navigation to AV entertainment, are consolidated into this intuitive user-interface so there are only 3 physical buttons present on the front panel, contributing to the clean looks of this model. No steep learning curves, so you can fulfill your enjoyment from day one.

ALL-IN-ONE DEVICE

Four powerful features, fine-tuned for the specific needs of drivers in Asia to offer a reliable and comfortable car navigation experience.

Map coverage:

Malaysia | Singapore | Thai | Indonesia | Brunei

- All-in-one map data for the above five countries will enable navigation assisted driving in this region with seamless convenience.
- Displays are available in 4 languages, and voiced guidance can be selected from 4 languages used in Asia for intuitive and comfortable navigation.
- With more than 15 main categories and more than 80 sub-categories, rich POI content lets you easily access just about any point of interest.
  *The number of category may differ in each region.
- Map coverage reaches 100% of major Road network in Thai, Malaysia, Singapore, and Brunei, so you can count on precise and efficient navigation without waste.

Direct control on touch-panel display

Smart touch-panel controls enable you to access information at the touch of a fingertip. Layouts are devised to enable instantaneous display of desired information, while detailed information can easily be called up with a light touch.

Rich POI database

With more than15 main categories and more than 80 sub-categories, Clarion car navigation's POI content database offers access to just about any point of interest in your surroundings. In addition to petrol stations and tourist information offices, you can look up the closest ATM, swimming pools, specific business areas and much, much more… Needless to say, you can also search for any POI by its name. Last but not least, you can use "My POI" zone to create your own POI favourites file.

Text to speech

One step closer to clear and safe driving. While streets are displayed on the screen, the voice guidance tells actual name of street at next manoeuvre. Also, the system is able to tell you the direction to take, exactly like a passenger would do! For example, if you drive in Bangkok, you would hear "... After 55 m, turn left onto Thanon Bamrung Muang……"

Sophisticated and efficient navigation graphics

Elevation information on the road network is used to draw roads and bridges in a realistic way, so you won't get "lost" at complex intersections. When travelling on a motorway, the system shows which lanes allow you to exit and which ones continue ahead, so you won't miss an exit road. Buildings close to you are drawn as transparent objects to avoid obstructing the next intersection, while buildings further away are textured and easily recognisable.

Roads, junctions and bridges with elevations

Lane information

Signposts information

Elevation modelling and 3D rendering for a realistic view

Topographical view

Modelling terrain in 3D

Comprehensive digital elevation model data is used to draw height and depth features for a realistic landscape at all levels of zoom. While driving, hills and mountains are rendered in 3D to better represent your real world driving environment. 3D landmark data is integrated seamlessly into the graphical rendering in 3D mode, and it does not block the view of POIs and other useful information on the map.

3D landmarks

Fully customisable

View height and angle is completely adjustable to user preference

The system is completely flexible to any user preference. Not only scale or day/night illumination, but also 2D/3D, elevation, route information, display of POIs icons, route details and many others are easily adjustable.

iPod direct control via USB

Just connect the USB cable that came with your iPod to the NX509A's rear USB input to control your iPod. Using the optional CCA723 cable will even let you watch iPod Video on the big screen. This same terminal can be used to play digital music stored on any USB memory device.

* To connect an iPod, please use the USB cable provided with your iPod.* For video playback , optional CCA723 cable required.* Please see our website for iPod models that can be connected.

iPod ABC search & simple control mode

In addition to genre/album/song title browsing, complete iPod ABC Search convenience is provided. Besides, the functions of the iPod control wheel are emulated on the source unit's control dial, so virtually the same operations are possible from both the iPod and the main unit.

iPod ABC search
Press and hold the [DISP] button (1 sec.).

Virtually the same operations are possible from both the iPod and the multimedia station.

BBE® MP for better sounding MP3/WMA/AAC files

BBE MP (Minimised Polynomial Non-Linear Saturation) process improves digitally compressed sound such as MP3/WMA/AAC by restoring the harmonics that are lost through compression, thereby reproducing the warmth, details and nuances that you would otherwise miss. BBE MP enhanced harmonics even serve to make regular CDs sound better.

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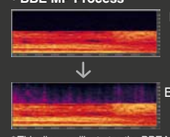
• BBE MP Process



BBE MP off

BBE MP on

* This diagram illustrates the BBE MP effect

Bluetooth® ready with BLT370

Hands-free conversations (HSP / HFP) on Bluetooth ready mobile phones, promote safe driving. This is possible via wireless connection of the phones to the vehicle audio systems. With the A2DP, Advanced Audio Distribution Profile, you can enjoy music reproduction from many new mobile phones or portable media players and control them via AVRCP (Audio Video Remote Control Profile).

Optional devices to expand your horizons

Your car system is as unique as you are — so maybe you'll want to add options that will expand your car navigational possibilities. More flexible, more customised, more in-tune with your driving lifestyle. Clarion has all the components you need.

EASY INTEGRATION

Simply connect Clarion's hide-away unit to enjoy car navigation that's fine-tuned for the specific needs of drivers in Asia.

Map coverage

Malaysia | Singapore | Thai | Indonesia | Brunei

- All-in-one map data for the above five countries will enable navigation assisted driving in this region with seamless convenience.
- Displays are available in 4 languages, and voiced guidance can be selected from 4 languages used in Asia for intuitive and comfortable navigation.
- With more than 15 main categories and more than 80 sub-categories, rich POI content lets you easily access just about any point of interest.
  *The number of category may differ in each region
- Map coverage reaches 100% of major Road network in Thai, Malaysia, Singapore, and Brunei, so you can count on precise and efficient navigation without waste.

NP509A

HIDE-AWAY MEMORY NAVIGATION SYSTEM

- Direct connection with VZ509A
- VX709A/VZ709A requires CCB509 interface
- System integration: Touch screen operation, AV interruption, navigation voice guidance and audio mix
- Stand-alone mode available (optional SA509 required)
- Built-in 2GB flash memory for navigation
- SD card slot for map updating
- SiRF III GPS module with 20-channel receiver
- No speed pulse connection required
- Navigation: please refer to navigation features for NX509A

3D Rendering for added realism and driving accuracy

The realistic 3D graphical representations of your driving environment are augmented by a host of full-fledged navigation functions.

For more information on navigation features, please refer to NX509A on page 3 for details.

3D map

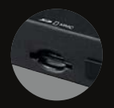
2D map

Navigation menu

3D landmark

Signpost information

Night mode



SD card for updates

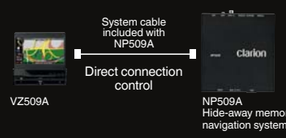
In addition to the built-in data, new maps or updates are made easy to upload through the dedicated SD slot.

Flexibility to integrate and create the navigation system you want

Since the navigation unit can be connected to a variety of multimedia main units to comprise an integrated car navigation system, it is possible to incorporate navigation into a variety of in-car systems.

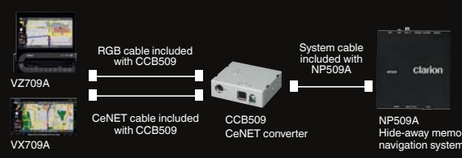
Direct connection for simple installation

Directly connect the NP509A hide-away navigation unit to the VZ509A and you'll have a navigation system offering touch panel operation and interactive voice guidance; music is muted when an instruction is announced.



Easy to integrate with CeNET converter

To add car navigation functionality to the VZ709A or VX709A main units, simply install the NP509A hide-away unit via CCB509 CeNET converter, and enjoy integrated map displays and voice guidance.



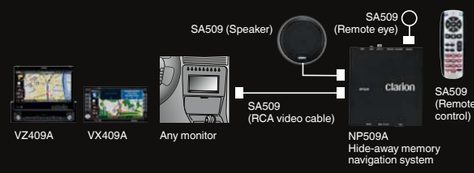
CCB509

CeNET CONVERTER FOR NP509A

CeNET converter box to connect NP509A with VX709A, VZ709A

Navigation can be added to entry level models

Even entry-level multimedia main units such as VZ409A and VX409A can be enhanced with car navigation functionality by using the SA509 stand-alone accessory kit.



SA509

STAND-ALONE ACCESSORY KIT FOR NP509A

- IR remote control and remote eye
- External speaker for voice guidance
- RCA video cable

Stay entertained all the way, and integrate with navigation

VZ509A

DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL

Remote control

■ VZ509A FEATURES

• DVD-Video/DVD±R/DVD±RW/Video CD/CD-R/RW ready • MP3/WMA/AAC compatible with ID3-TAG display • Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 18 FM, 12 AM station presets • iPod direct control (optional CCA723 required for iPod video playback) • Rear USB connector • 2 AV inputs • Rear vision camera RCA input, compatible with NTSC and PAL format • Subwoofer volume control • 24-bit D/A converter • BBE MP for compressed audio sound improvement (only for USB function) • Beat EQ for sound adjustment • MAGNA BASS EX dynamic bass enhancement • Built-in High Pass Filter & Low Pass Filter • 2-Zone entertainment: front and rear separate source control • Touch panel control (on-screen display) • Fully motorised 7-inch TFT colour LCD monitor • Adjustable display brightness • 6-channel audio pre-out (Front/ Rear/ Subwoofer) and 2-channel audio pre-out for 2-Zone • 4-channel × 50 watts • Bluetooth® interface ready (optional BLT370) • OEM steering wheel remote wired interface capability • Built-in IR Eye (RCB198 remote included)

Comprehensive and Multifunctional GUI (Graphical User Interface)

With a vast majority of functions controllable from the VZ509A touch panel, there are only 4 physical buttons. Operation is streamlined, simplified, and beautifully enhanced with the high-resolution on-screen display.

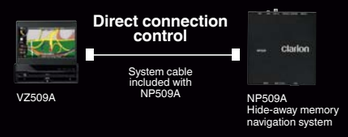
2-Zone entertainment

This separates the in-car environment into two discrete zones, allowing rear seat passengers to enjoy a DVD movie or iPod Video while the front seat passengers enjoy their favourite radio station or music from a USB memory device.

* USB and iPod can not be played back at the same time.

Navigation touch panel operation

The NP509A hide-away navigation system can be connected to the VZ509A directly via a system cable and controlled through its touch panel with high precision. So with this multimedia station, you can upgrade to a car navigation system simply. Count on voice guidance messages and high-resolution map displays to get you safely to your destination.



USB direct connection and control of even the newest iPods

Just connect the USB cable that is included with your iPod to the NX509A's rear USB input to control your iPod. Using an optional CCA723 cable will even let you watch iPod Video on the screen. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

* To connect an iPod, please use the USB cable provided with your iPod.* For video playback , optional CCA723 cable required.* Please see our website for iPod models that can be connected.

iPod control including iPod ABC search

Just connect the USB cable that's included with your iPod to the NX509A's USB input and you get complete control of your iPod including genre/album/song title browsing, complete with iPod ABC Search convenience. The functions of iPod's control wheel are emulated on the multimedia station's control dial, so virtually the same operations are possible from both the iPod or the multimedia station.

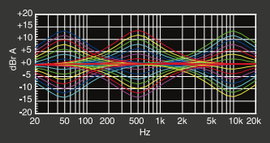
iPod ABC search
Press and hold the [DISP] button (1 sec.).

Virtually the same operations are possible from both the iPod and the main unit.

Categories
● PLAYLISTS ● ARTISTS ● ALBUMS
● SONGS ● GENRES ● COMPOSERS

Beat EQ for user customisable sound

In addition to providing 3 preset equalisation patterns — BASS BOOST, IMPACT, and EXCITE — Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. Depending on your mood and the type of music, you can tune the sound exactly to your liking for a more fulfilling listening experience.



Bluetooth® ready with BLT370

Hands-free conversations (HSP / HFP) on Bluetooth ready mobile phones, promote safe driving. This is possible via wireless connection of the phones to the vehicle audio systems. With the A2DP, Advanced Audio Distribution Profile, you can enjoy music reproduction from many new mobile phones or portable media players and control them via AVRCP (Audio Video Remote Control Profile).

Entertainment-intensive with intuitive interface

VX709A

2-DIN DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL

Remote control

Motorised sloping control & DISC slot

The space-efficient design of this mechanism allows enjoyment of CD, and DVD, in a single unit that enables easy media exchange.

■ VX709A / VZ709A FEATURES

• DVD-Video/DVD±R/DVD±RW/CD/CD-R/RW/Video-CD ready • Built-in Bluetooth® hands-free (HFP & OPP) and audio streaming (A2DP & AVRCP) • MP3/WMA/AAC compatible with ID3-TAG display • Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 24FM, 16AM station presets • Rear USB connector • iPod direct control (optional CCA723 required for iPod video playback) • AV input • Dedicated rear vision camera RCA input • Subwoofer volume control • 3-band parametric equaliser • 24-bit D/A converter • MAGNA BASS EX dynamic bass enhancement • Built-in High Pass Filter & Low Pass Filter • Motorised sloping control panel with 7-inch QVGA colour LCD monitor (VX709A) • Fully motorised 7-inch QVGA colour LCD monitor (VZ709A) • 6-channel audio pre-out and 2-channel audio pre-out for 2-Zone • 2-Zone entertainment: front and rear separate source control • 4 × 50 Watt internal amplifier • OEM steering wheel remote wired interface capability • Built-in IR Eye (RCB198 remote included) • 4 preset wallpaper design

VZ709A

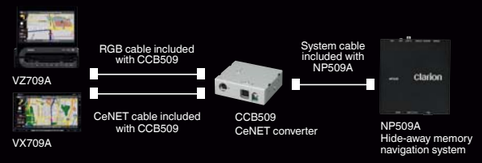
DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL

Remote control

DCP

CeNET for hide-away navigation connection

The CeNET interface enables connection of the NP509A flash memory navigation system (via optional CCB509 CeNET converter) to the main unit for fully integrated and interactive car navigation.



Function display screens for full system information

Clarion's in-dash, 7-inch monitor is the source for all media and function information, allowing quick access to a host of features with a simple touch of the on-screen menu. The menu is laid out in an easy-to-understand fashion by displaying all actions related to the selected media source.

Built-in Bluetooth® hands-free

With a Bluetooth compatible main unit, you can wirelessly connect your Bluetooth capable mobile phone to listen to calls through your car's audio system. HFP/OPP/A2DP/AVRCP protocols are supported.

USB direct connection and control of even the newest iPods

By connecting an iPod to the source unit's USB input using the USB cable provided with your iPod, it will be possible to control the iPod. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

* To connect an iPod, please use the USB cable included with your iPod. * For video playback, optional CCA723 cable required.* Please see our website for iPod models that can be connected. * iPod ABC Search is not available.

24-bit D/A converter for superb sound reproduction

The digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. That is why Clarion's 24-bit D/A (Digital-to-Analogue) converter over-samples the digital signal to recreate the natural nuances and expressions lost during the sound reproduction process.

3-band parametric equaliser

The entire sound spectrum is separated into high, medium and low ranges. The level of each can be adjusted separately. Customise the sound to suit your taste and your car.

6-channel audio pre-out

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for Subwoofers, the full set of RCA line outputs allows upgrading to a full-scale AV system with plenty of support for future system expansions.

QVGA quality puts your entertainment into high gear

VZ409A

DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL

VX409A

2-DIN DVD MULTIMEDIA STATION WITH 6.5-INCH TOUCH PANEL CONTROL

■ VX409A / VZ409A FEATURES

• DVD-Video/DVD±R/DVD±RW ready • CD-DA/HDCD/CD-R/RW ready • MP3/WMA compatible with ID3-TAG display • 18 FM, 6 AM station presets • iPod direct control (optional cable required) • Rear AV input • Rear AV output • Subwoofer volume control • 24-bit D/A converter • Fully motorised 7-inch QVGA colour LCD monitor (VZ409A) • Fully motorised 6.5-inch QVGA colour LCD monitor (VX409A) • Adjustable display brightness • Tilt angle 5 positions display (VZ409A) • 6-channel audio pre-out • 4 × 40 Watt internal amplifier • Smart rotary volume control • Bluetooth® interface ready (optional BLT370) • OEM steering wheel remote wired interface capability • Remote control included

Remote control

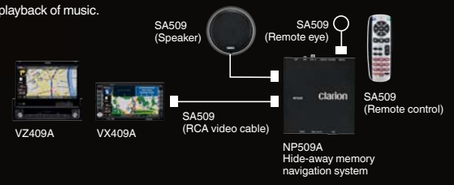
A single optional cable will let you enjoy playback of music.

Seamless iPod entertainment on your car audio console

Just connect your iPod and press the [iPod] key on the Source menu. Accessing content is easy using the [FOLDER] key to display list screens by composer, artist, album, song or genre. Or just press the [Shuffle] key to play tacks in random order.

Navigation can be added to entry level models

Even entry-level multimedia main units such as VZ409A and VX409A can be enhanced with car navigation functionality by using the SA509 stand-alone accessory kit.



Specifications

	NX509A	VX709A	VZ709A	VZ509A	VZ409A	VX409A
MONITOR SECTION						
Screen Size (W × H), mm	155.4 × 81.6 (7 inch)	155.4 × 81.6 (7 inch)	152.0 × 85.0 (7 inch)	152.0 × 85.0 (7 inch)	153 × 87 (7 inch)	141 × 78 (6.5 inch)
Aspect Ratio	–	–	–	–		
Display Type	Transmission type TN liquid crystal display	Transmission type TN liquid crystal display	Transmission type TN liquid crystal display	Transmission type TN liquid crystal display	Transmission type TN liquid crystal display	Transmission type TN liquid crystal display
Drive Principle	TFT (thin-film transistor) active matrix display	TFT (thin-film transistor) active matrix display	TFT (thin-film transistor) active matrix display	TFT (thin-film transistor) active matrix driving	TFT (thin-film transistor) active matrix driving	TFT (thin-film transistor) active matrix driving
Number of Pixels	336,960	336,960	336,960	336,960	336,960	336,960
VRC Video Input	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75)	1.0 ± 0.2 Vp-p (input impedance 75)
VRC Audio Input	130 ± 60 Vrms (input impedance 10 kΩ or greater)	130 ± 60 mVrms (input impedance 10 kΩ or greater)	130 ± 60 Vrms (input impedance 10 kΩ or greater)	130 ± 60 Vrms (input impedance 10 kΩ or greater)	130 ± 60 Vrms (input impedance 10 k or greater)	130 ± 60 Vrms (input impedance 10 k or greater)
TUNER SECTION						
Frequency Bands						
FM: (MHz) 0.05 MHz steps	87 to 108	87 to 108	87 to 108	87 to 108	87 to 108	87 to 108
AM: (kHz) 9 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1629	531 to 1629
DVD SECTION						
Useable Discs	DVD video / DVD±R / RW	DVD video / DVD±R / RW	DVD video / DVD±R / RW	DVD video / DVD±R / RW	DVD video / DVD±R / RW	DVD video / DVD±R / RW
Frequency Response (Hz)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)
Distortion (%)	0.006	0.006	0.01	0.006	0.006	0.006
CD SECTION						
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	–	–
S/N Ratio (dB) 1 kHz	100	100	100	100	–	–
Frequency Response (Hz)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -1 dB)	20 to 20,000 (+1 dB, -3 dB)	20 to 20,000 (+1 dB, -3 dB)
Dynamic Range (dB) 1 kHz	100	100	100	100	–	–
Harmonic Distortion (%)	0.006	0.006	0.01	0.006	–	–
AUDIO SECTION						
Power Output (DIN45324, +B = 14.4 V)	4 × 26 W	4 × 27 W	4 × 27 W	4 × 26 W	4 × 40 W(MAX)	4 × 40 W(MAX)
GENERAL						
Dimensions (W × H × D), mm	178 × 100 × 160	178 × 100 × 160	178 × 50 ×165	178 × 50 ×165	178 × 50 × 165	178 × 100 × 165
Weight (kg)	2.6	2.7	2.4	2.4	2.15	2.8
Power Consumption	3.5 A (at 1W)	4.0 A (at 1 W)	4.0 A (at 1W)	3.5 A (at 1W)	4.0 A (at 1W)	4.0 A (at 1W)
Power Requirement	14.4 V DC (10.8 ~ 15.6 V)	14.4 V DC (10.8 ~ 15.6 V)	14.4 V DC (10.8 ~ 15.6 V)	14.4 V DC (10.8 ~ 15.6 V)	14.4 V DC (10.8 ~ 15.6 V)	14.4 V DC (10.8 ~ 15.6 V)
Speaker Impedance	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)